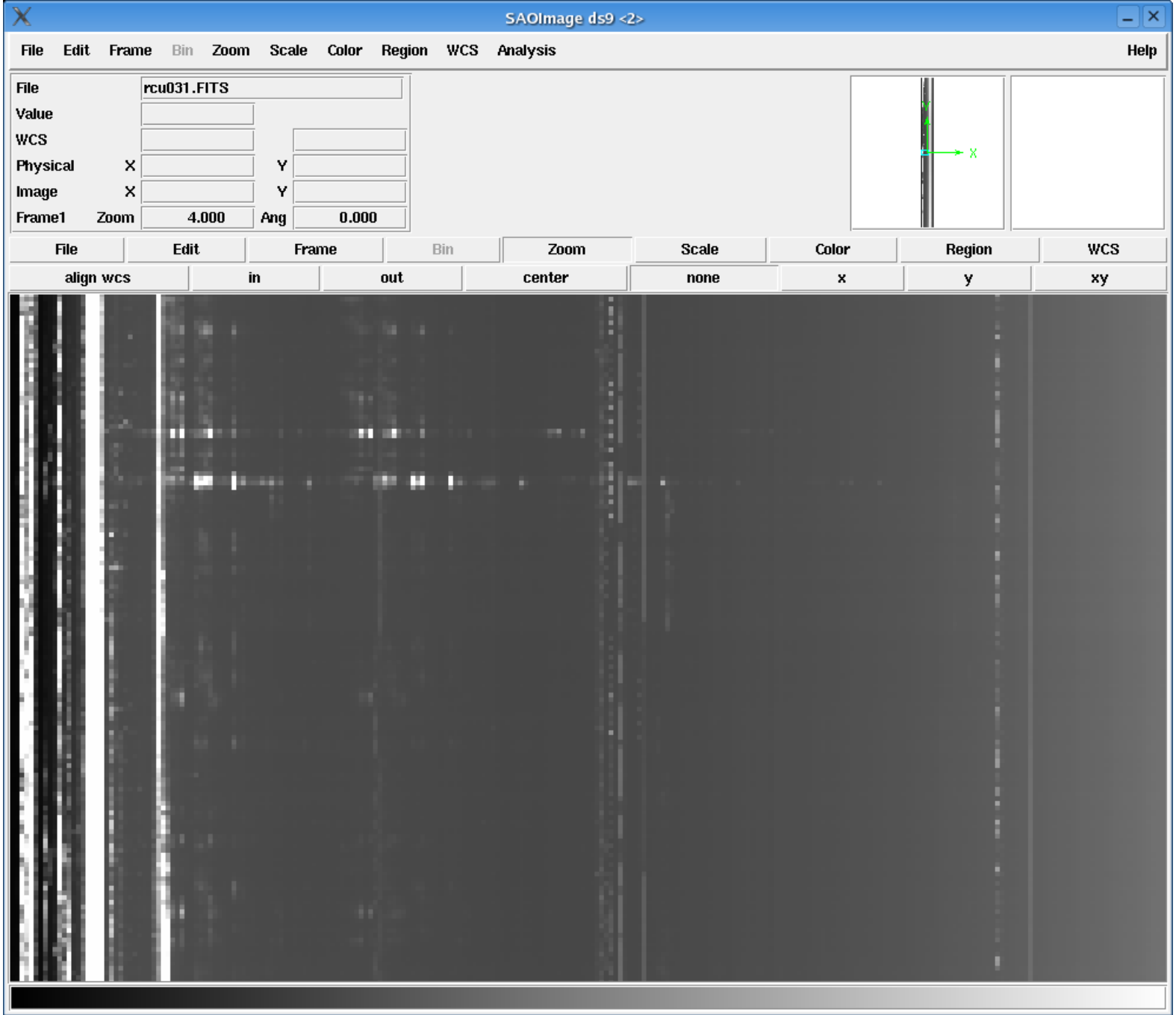
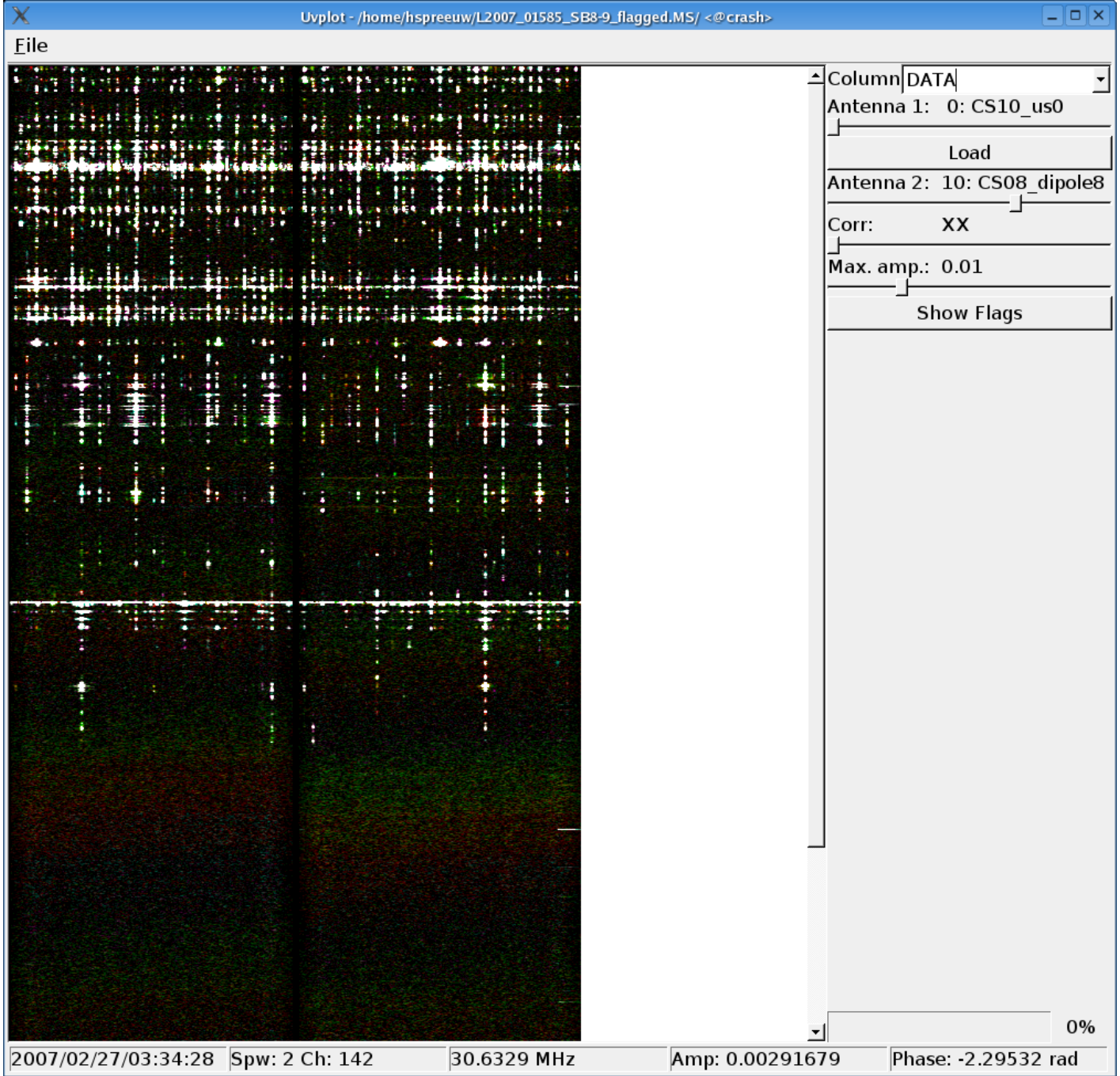
Jupiter burst February 27th

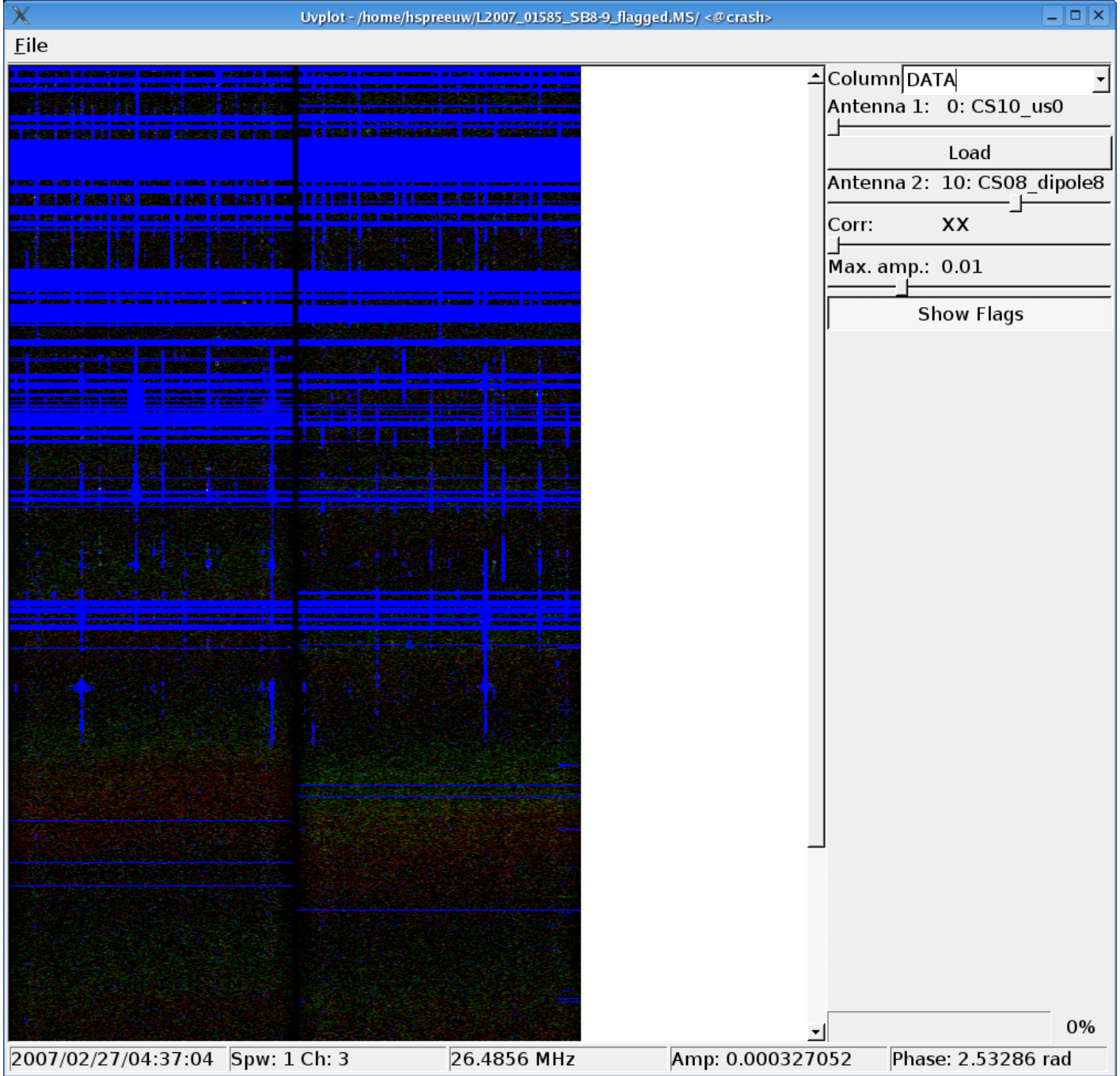
- Predicted Jupiter burst 2:15-4:30 UT
- Observation from 2:15-5:15 UT
- Jupiter (δ=-22°) rises at 2:45 and culminates at 6:15 at 16° elevation.
- Asked for subbands 155-166 plus 183 thru 186
- Got subbands at higher frequencies except subband 170 (26.5 Mhz).
- Troubled by RFI


SAOImage ds9 <2>
File Edit Frame Bin Zoom Scale Color Region WCS Analysis Help
File rcu031.FITS
Value
WCS
Physical X Y
Image X Y
Frame1 Zoom 4.000 Ang 0.000
File Edit Frame Bin Zoom Scale Color Region WCS
align wcs in out center none x y xy

Aips++ autoflagger

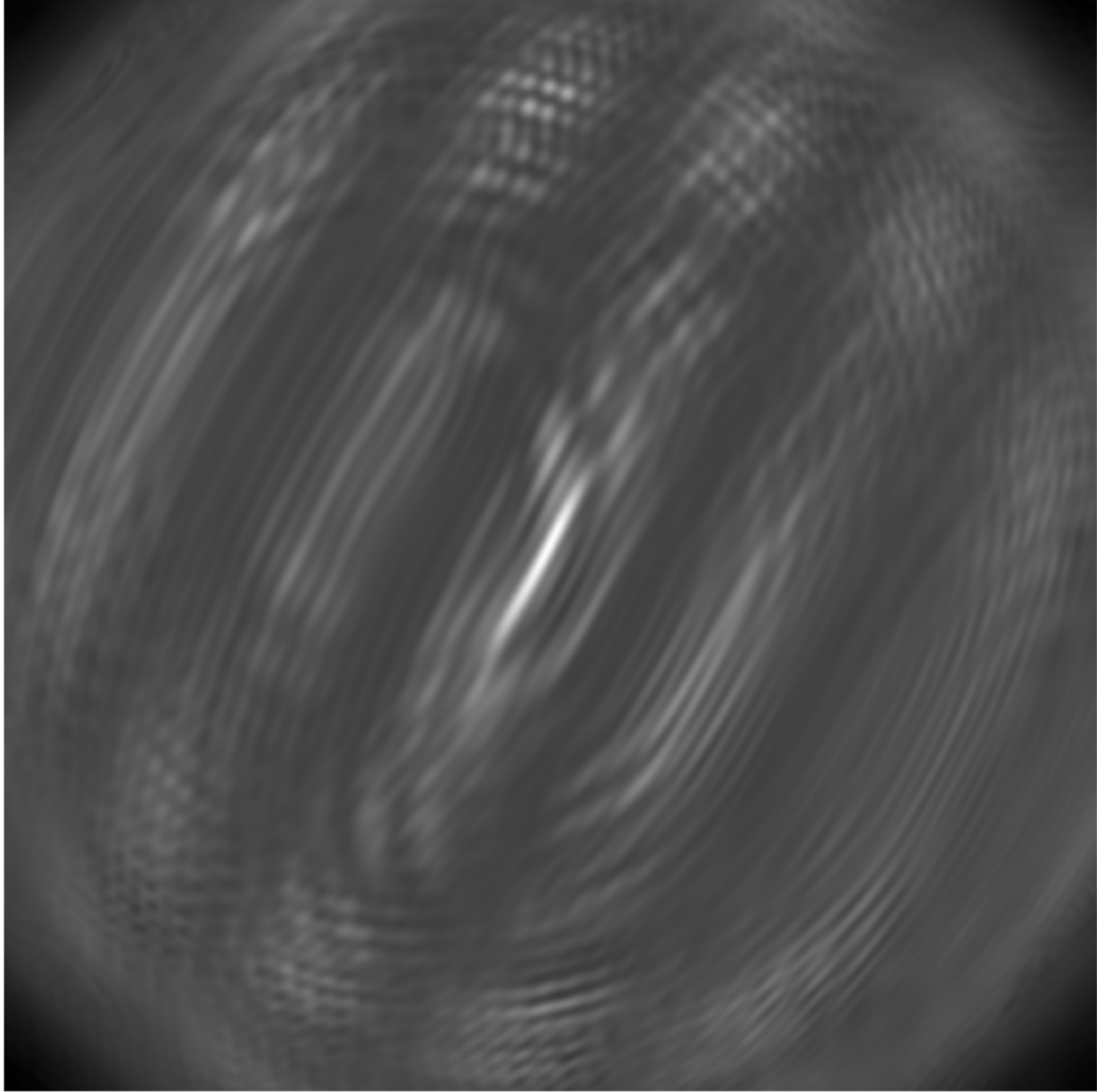
- include 'autoflag.g'
- af:=autoflag('L2007_01585_SB8-9_flagged.MS');
- af.setdata();
- af.setfreqmed(thr=5,hw=12,rowthr=5,rowhw=20,column='CORR',fignore=T);
- af.settimemed(thr=5,hw=10,rowthr=5,rowhw=10,column='CORR',fignore=T);
- af.run(reset=T,trial=F,plotdev=4,devfile='flagrep.ps/ps');


Uvplot - /home/hspreeuw/L2007_01585_SB8-9_flagged.MS/ <@crash>
File
Column DATA
Antenna 1: 0: CS10_us0
Load
Antenna 2: 10: CS08_dipole8
Corr: XX
Max. amp.: 0.01
Show Flags
0%
2007/02/27/03:34:28
Spw: 2 Ch: 142
30.6329 MHz
Amp: 0.00291679
Phase: -2.29532 rad

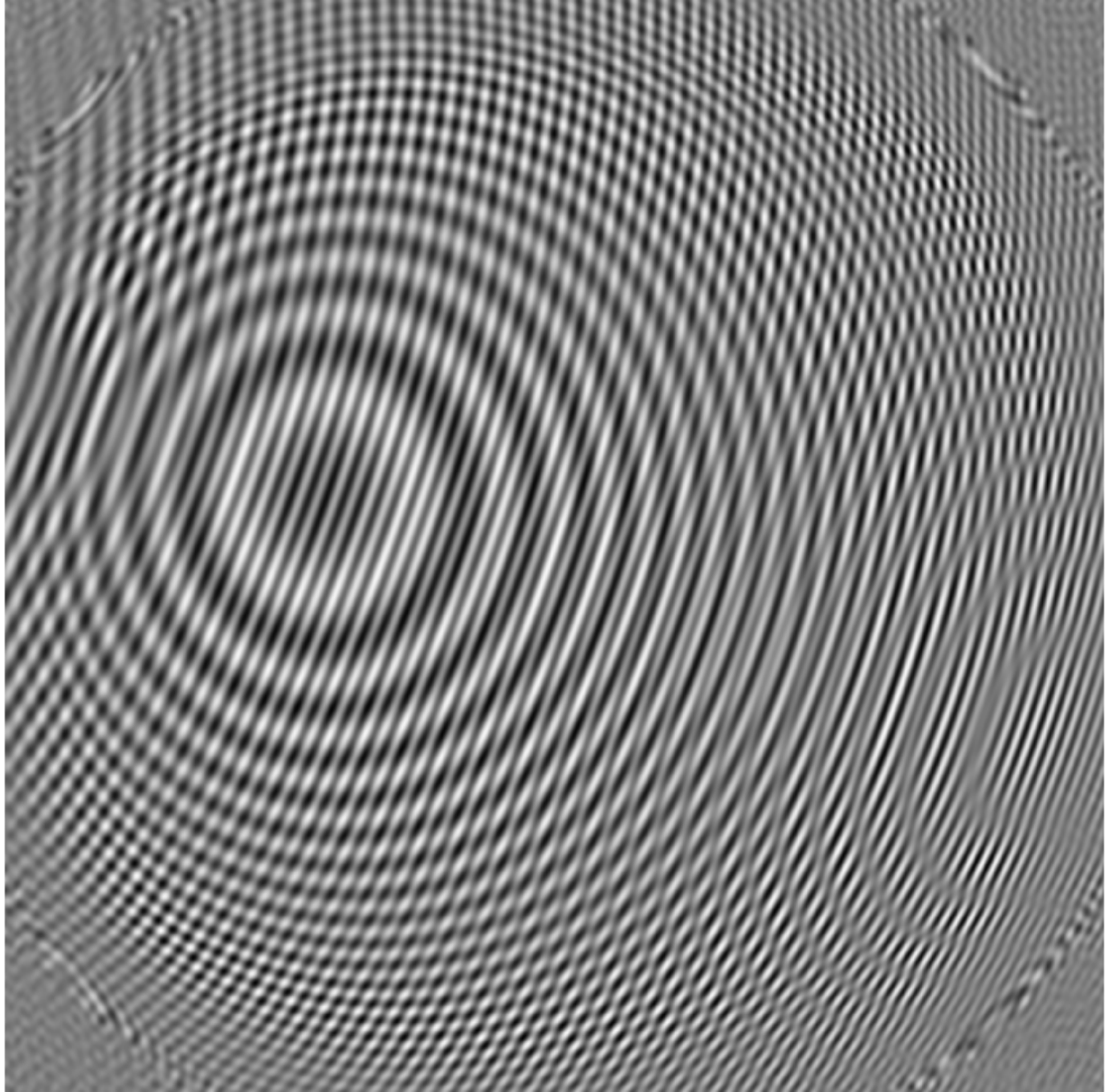

Uvplot - /home/hspreeuw/L2007_01585_SB8-9_flagged.MS/ <@crash>
File
Column DATA
Antenna 1: 0: CS10_us0
Load
Antenna 2: 10: CS08_dipole8
Corr: XX
Max. amp.: 0.01
Show Flags
0%
2007/02/27/04:37:04
Spw: 1 Ch: 3
26.4856 MHz
Amp: 0.000327052
Phase: 2.53286 rad

Dirty beam (no flagging)

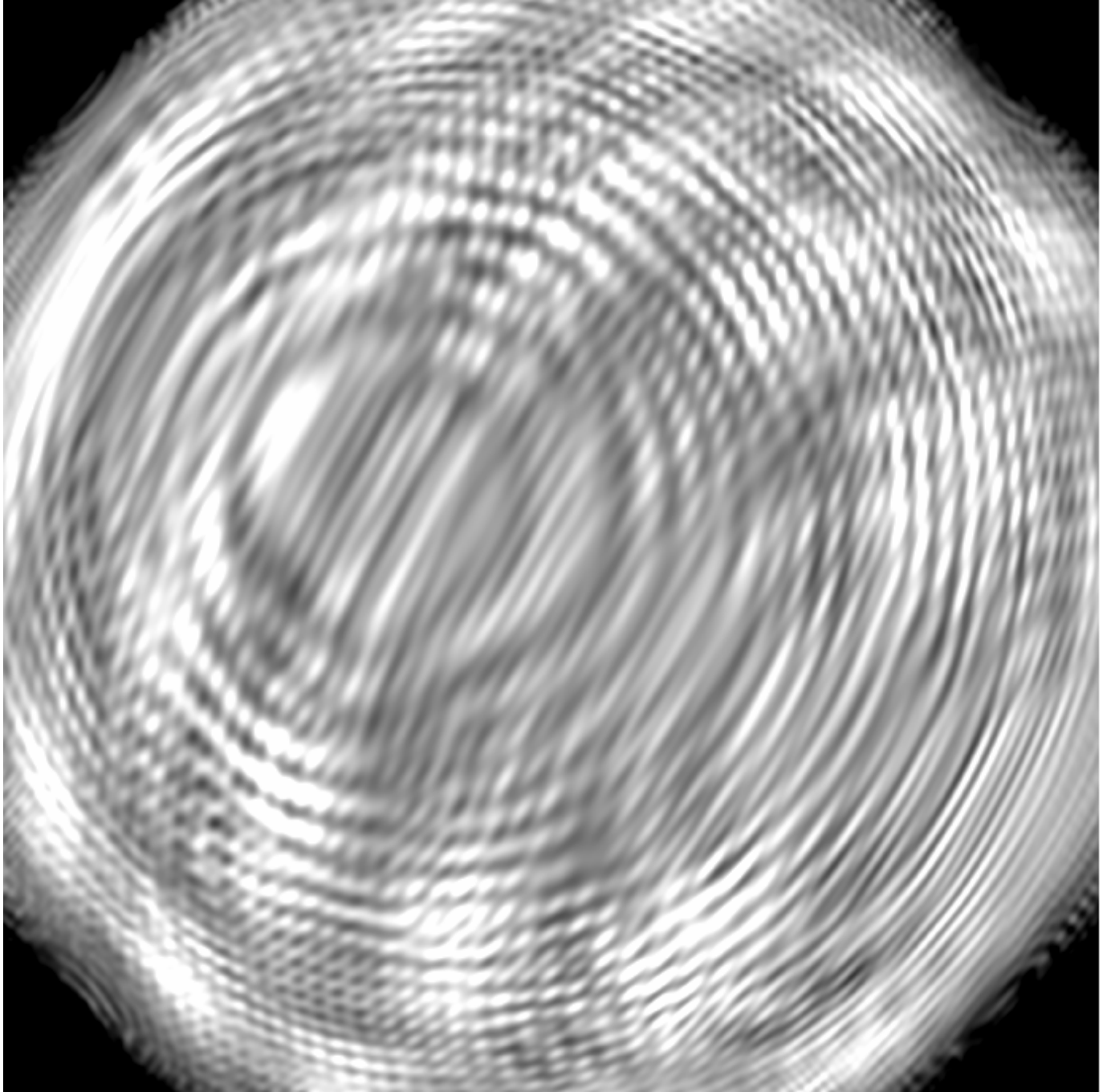
- ~100° wide



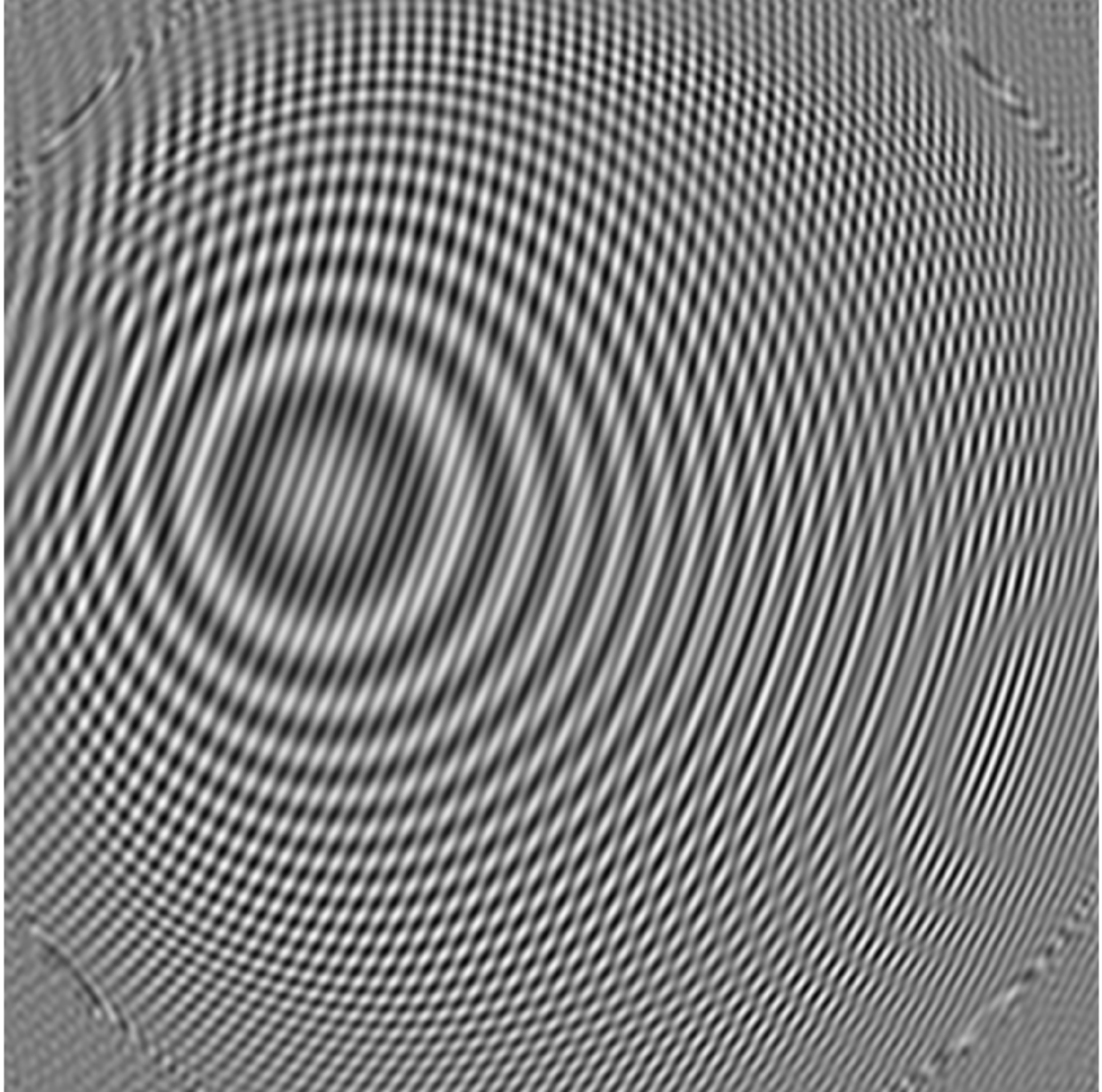
Dirty beam (flagged)



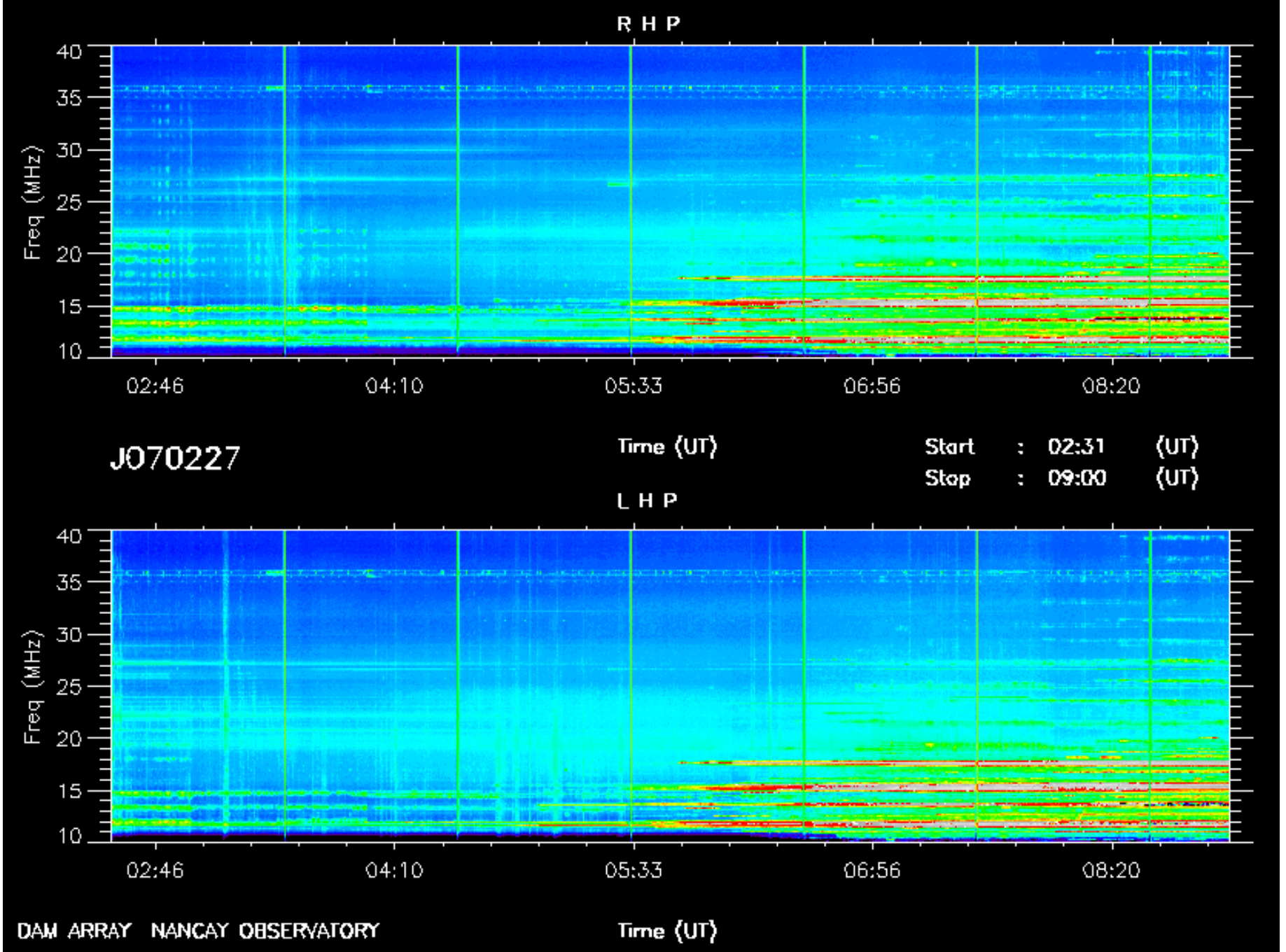
Dirty image (unflagged)



Dirty image (flagged)



Nancay observation


R H P
Freq (MHz)
40
35
30
25
20
15
10
02:46
04:10
05:33
06:56
08:20
J070227
Time (UT)
Start : 02:31 (UT)
Stop : 09:00 (UT)
L H P
Freq (MHz)
40
35
30
25
20
15
10
02:46
04:10
05:33
06:56
08:20
DAM ARRAY NANCAY OBSERVATORY
Time (UT)

Conclusions

- Dirty image looks like the dirty beam, but inverted.
- We see fringes, but is there a source?